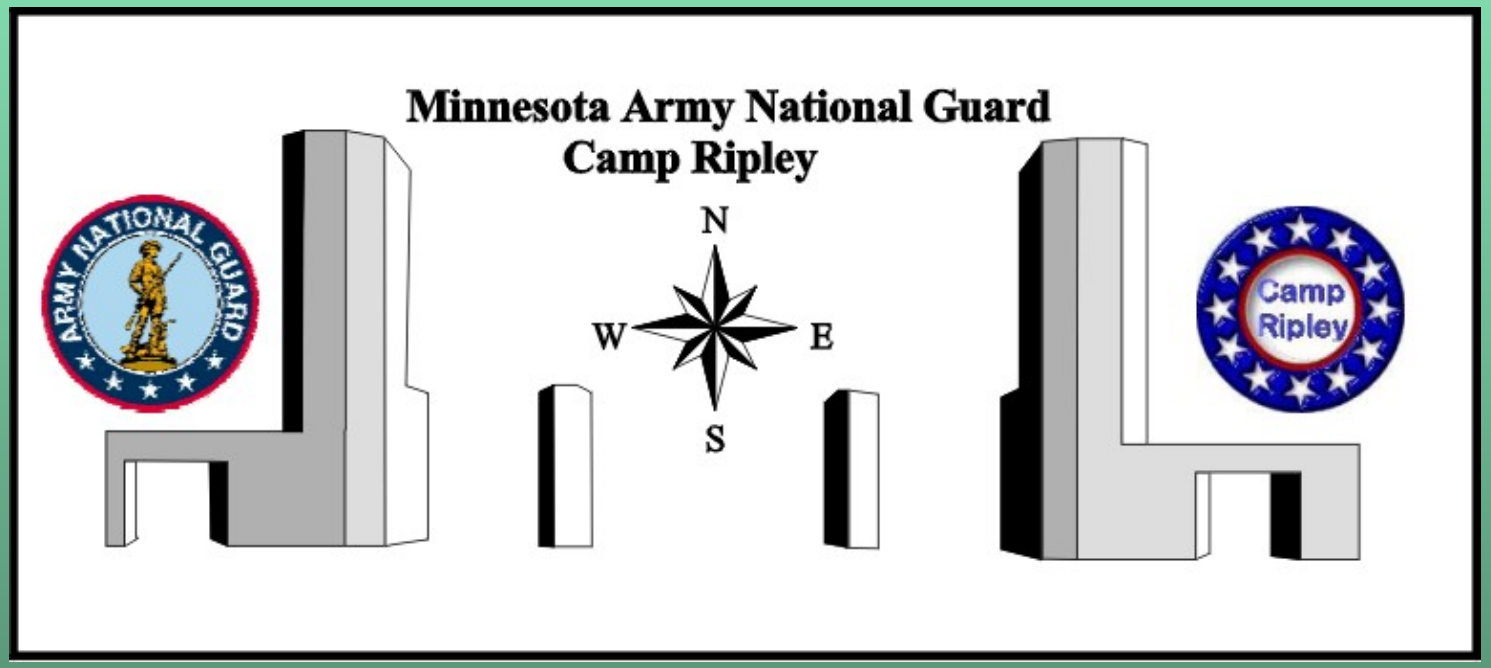
Historical Data for Current and Future Encroachment Issues



SARC@SCSU

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A tradition of excellence and opportunity

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Spatial Analysis Research Center

Photography Types:

Scanned Historic Maps

Black and White Photos

Color 35mm Slides

Color 35mm on CD's Rectifie

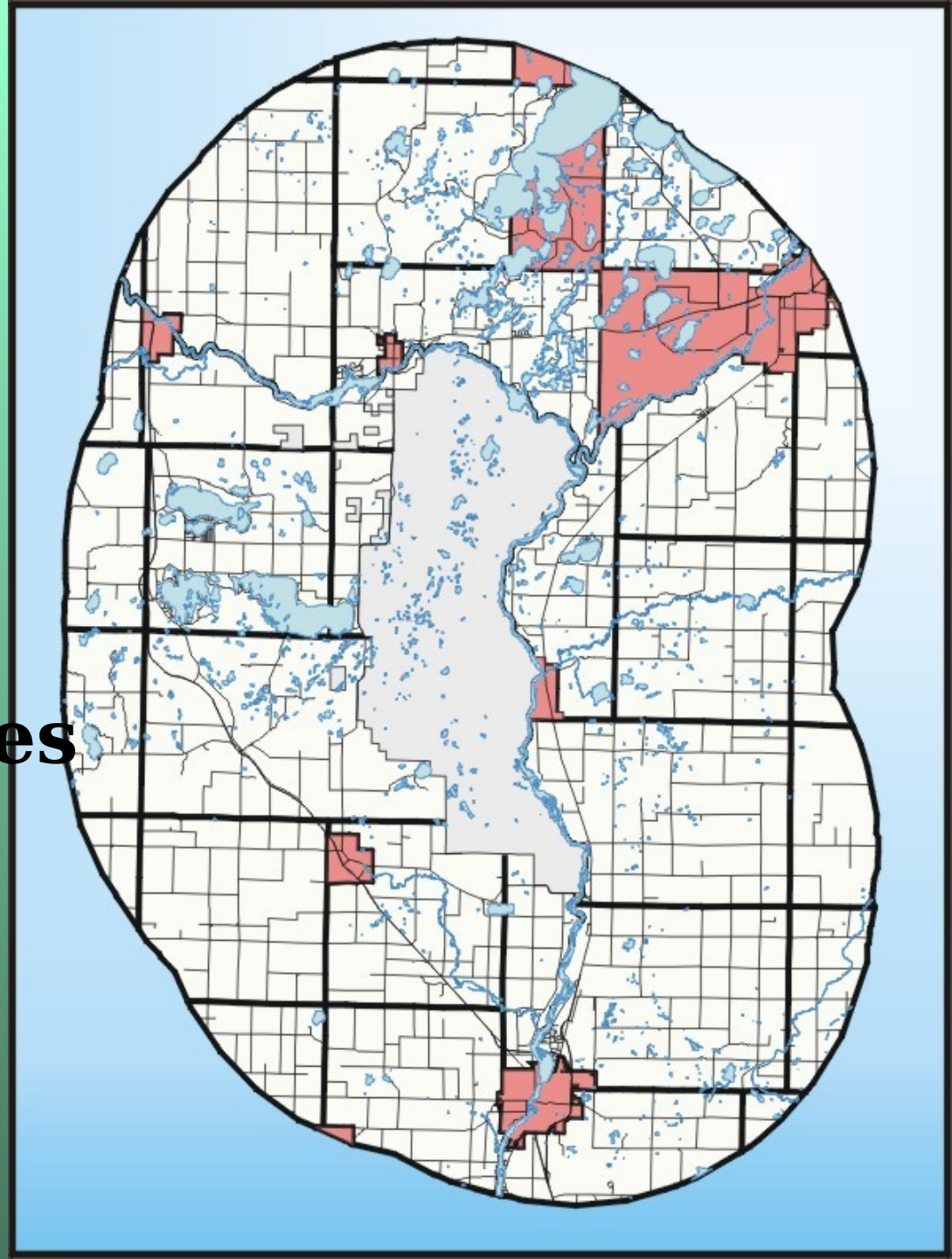
Color Infrared Slides

Black and White roll negative

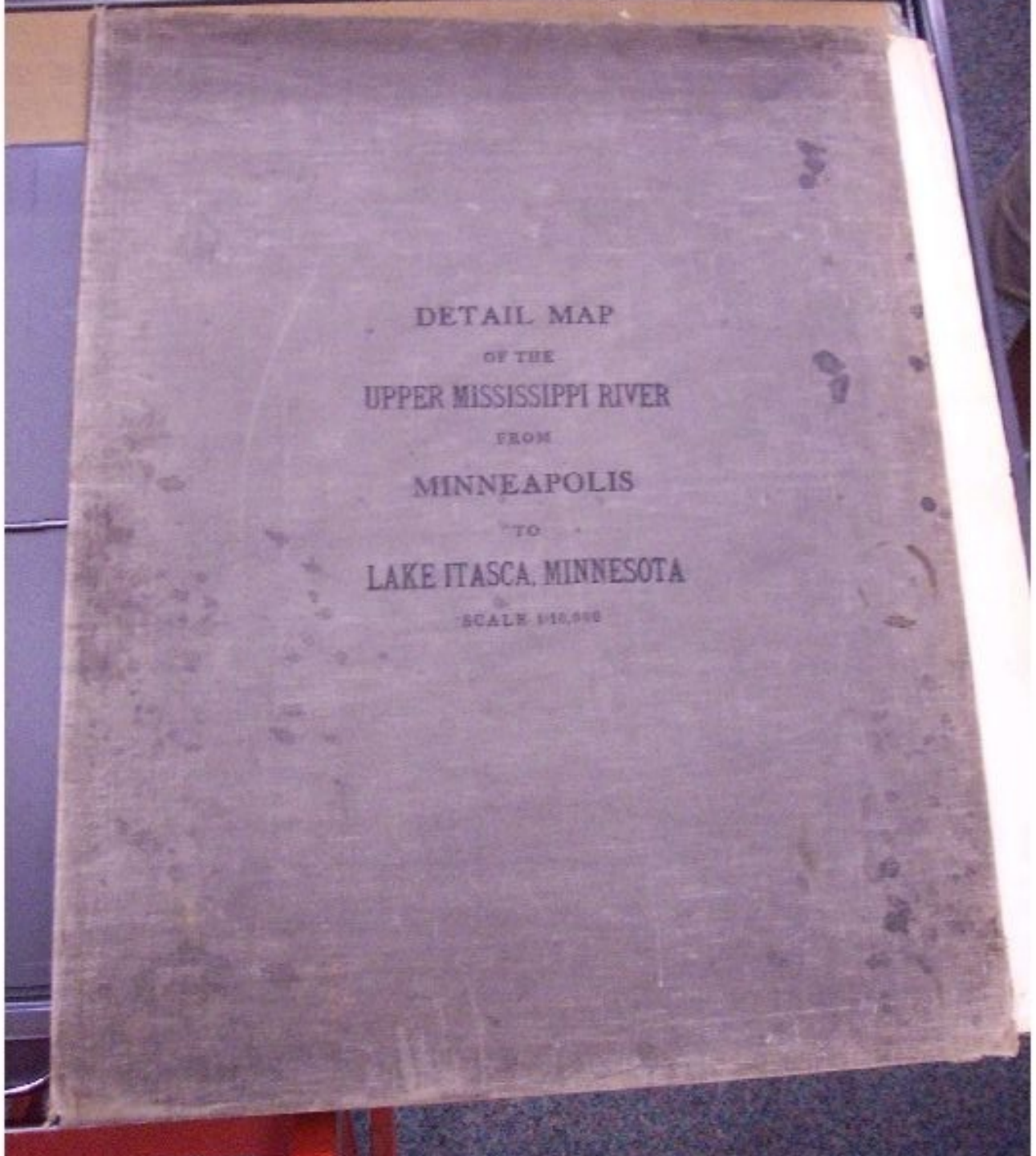
All DIFFERENT scales and in

Buffer Area

Approximately 850 Square Miles



COE Archive Library, St. Pau


DETAIL MAP
OF THE
UPPER MISSISSIPPI RIVER
FROM
MINNEAPOLIS
TO
LAKE ITASCA, MINNESOTA
SCALE 1:10,000

Map

of the

MISSISSIPPI RIVE

FROM

LAKE ITASCA TO THE FALLS OF SAINT ANTHON

In fifteen sheets.

Compiled from surveys and reconnoissances made under the direction of Maj. F.U. Farquhar, Corps of Engineers, and of Capt. Chas. J. Allen, Corps of Engineers; and from the U. S. Land Surveys.

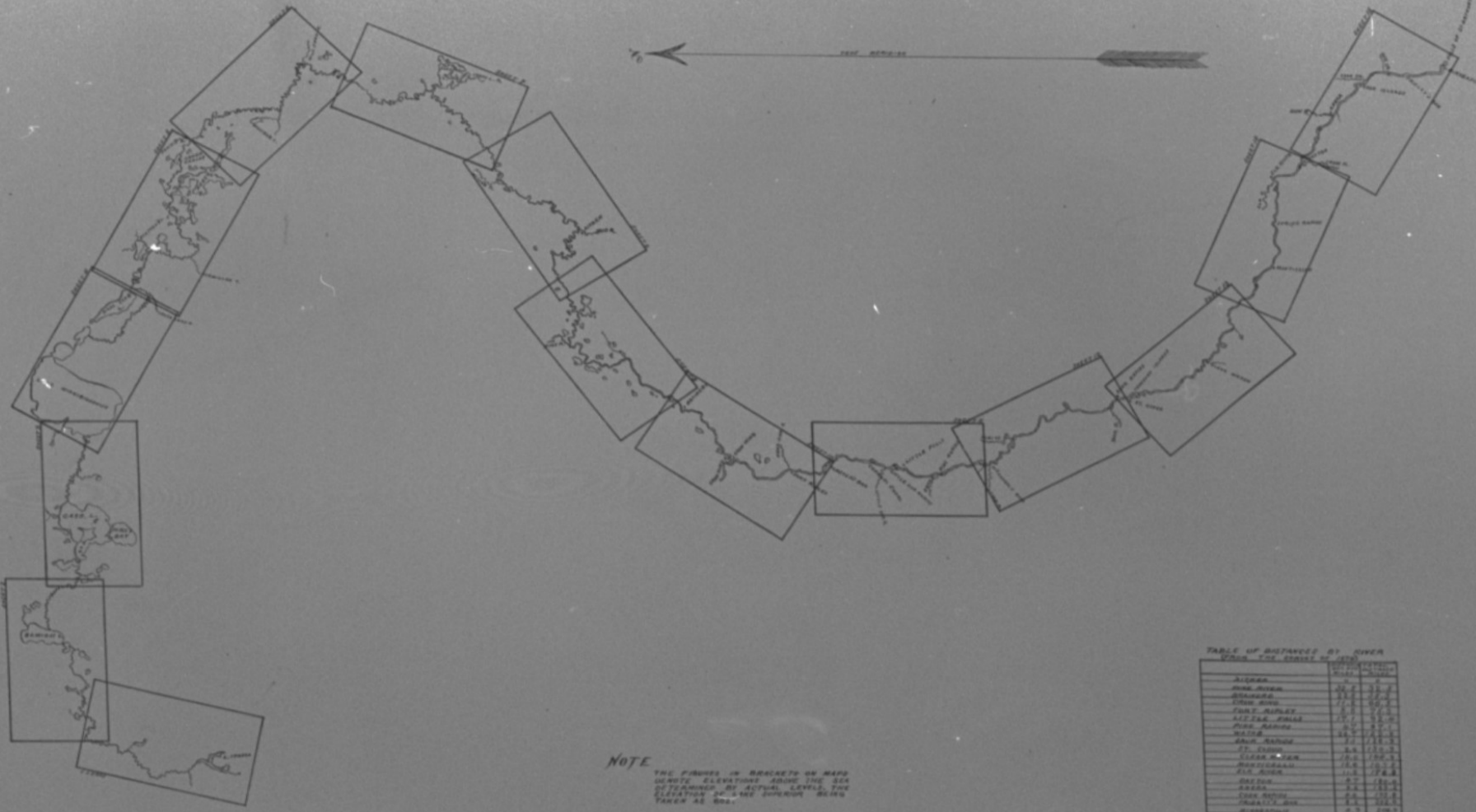
Drawn under the direction of

CAPT. CHAS. J. ALLEN.

by

C.J.A. Morris and J.B. Parkinson, Draughtsmen.

1881.



NOTE

THE FIGURES IN BRACKETS ON MAPS INDICATE ELEVATIONS ABOVE THE SEA AS EXAMINED BY ACTUAL LEVELS, THE ELEVATION OF LAKE SUPERIOR BEING TAKEN AS 600.

TABLE OF DISTANCES BY RIVER FROM THE MOUTH OF [illegible]

	Miles	Feet
ALGOMA		
PINE RIVER		
BRUNETTE		
LITTLE BAY		
CROSS RIVER		
LITTLE RAPIDS		
PINE RAPIDS		
MAUDE		
FOUR RAPIDS		
ST. CLOUD		
CLEAR WATER		
MISSISSAGUA		
FOX RIVER		
ORIENTAL		
ARABIA		
CROSS RAPIDS		
PARADISE BAR		
SUPERIOR		

Scale [illegible] Miles

CROW WING ISLAND

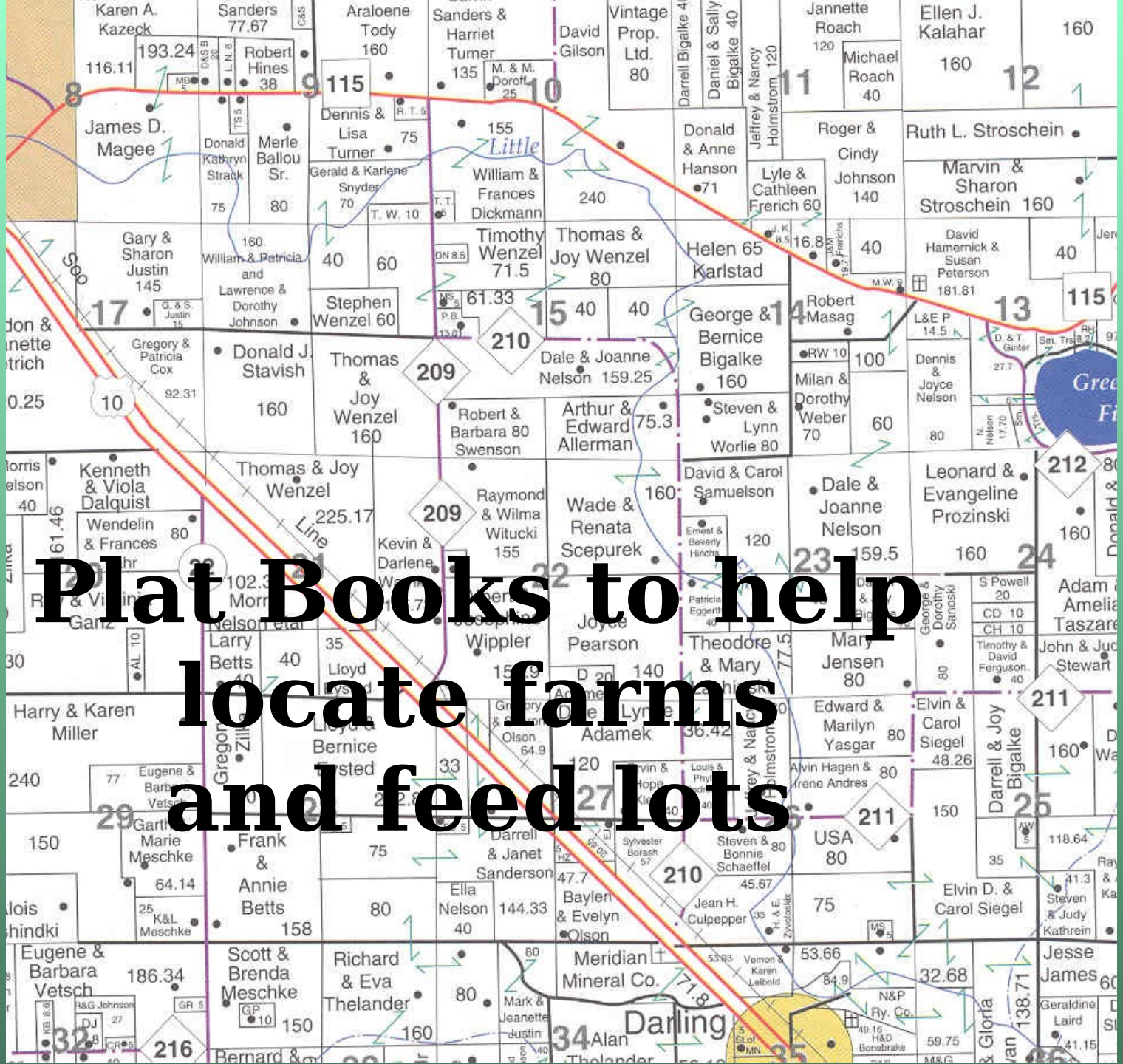
John Borchert
Map Library
Univ of Mn
Minneapolis

Searching flight lines

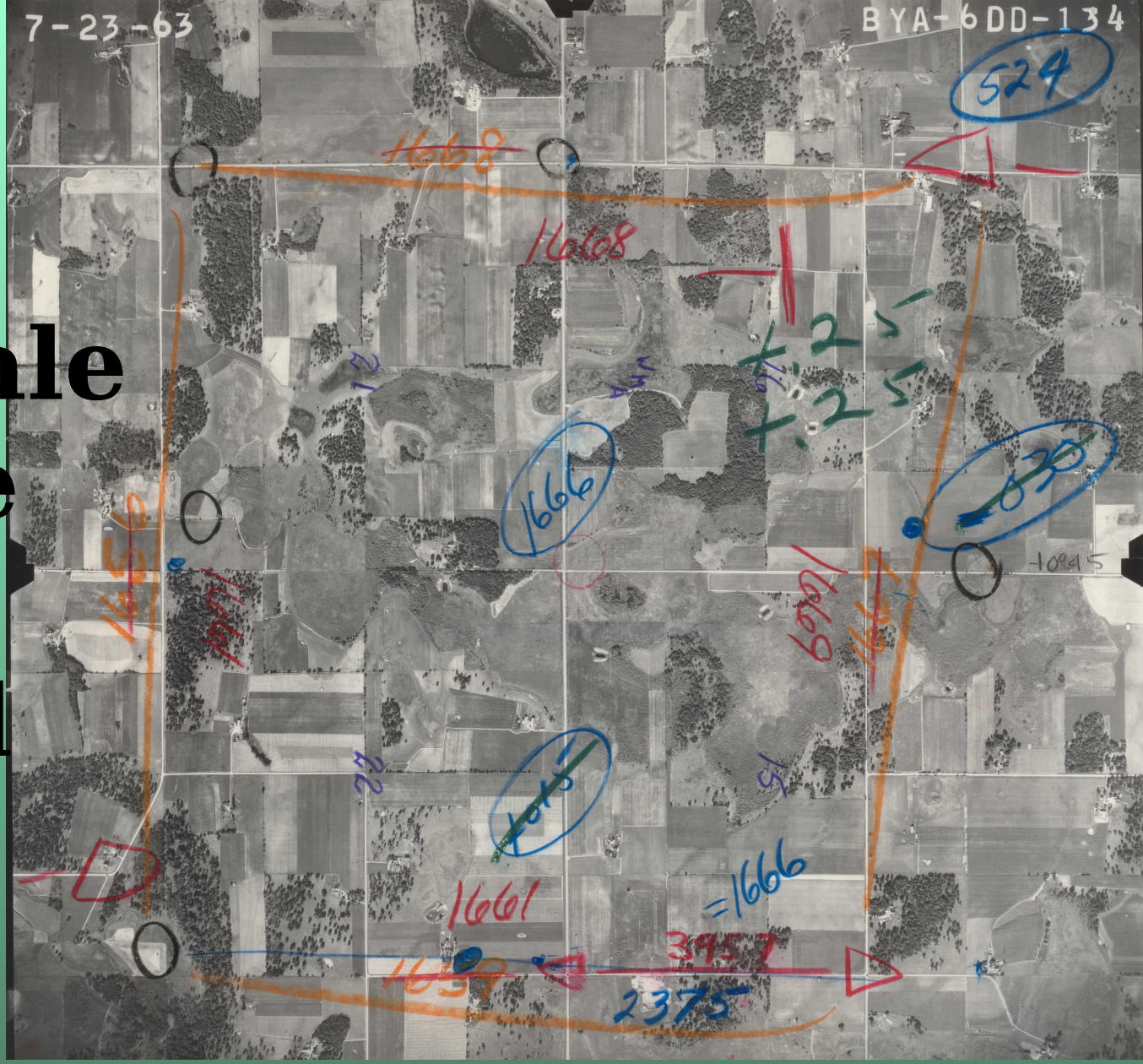
FSA County Office
Little Falls, MN

Cans of Negative Film for Scanning

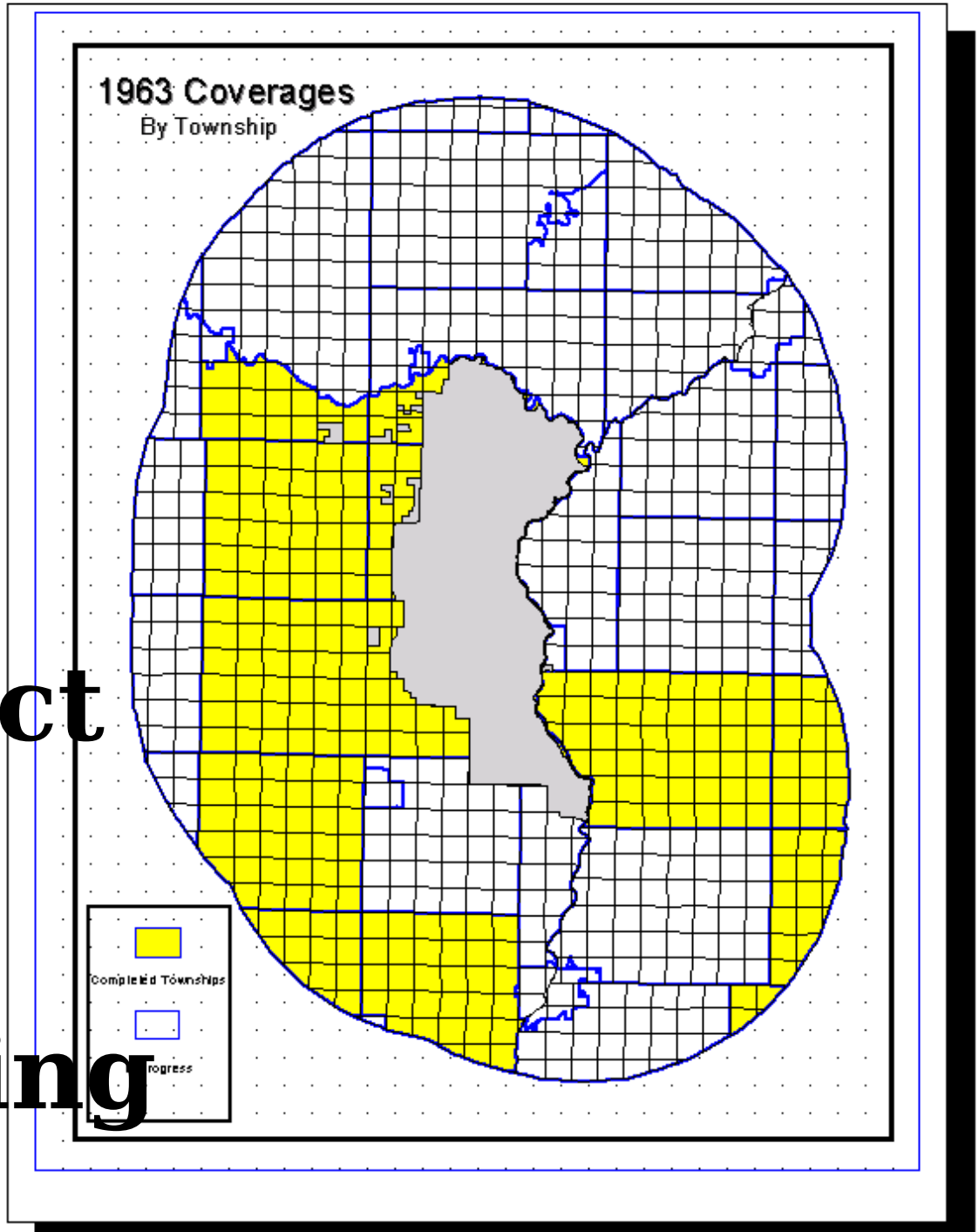
720 dpi was used for all types

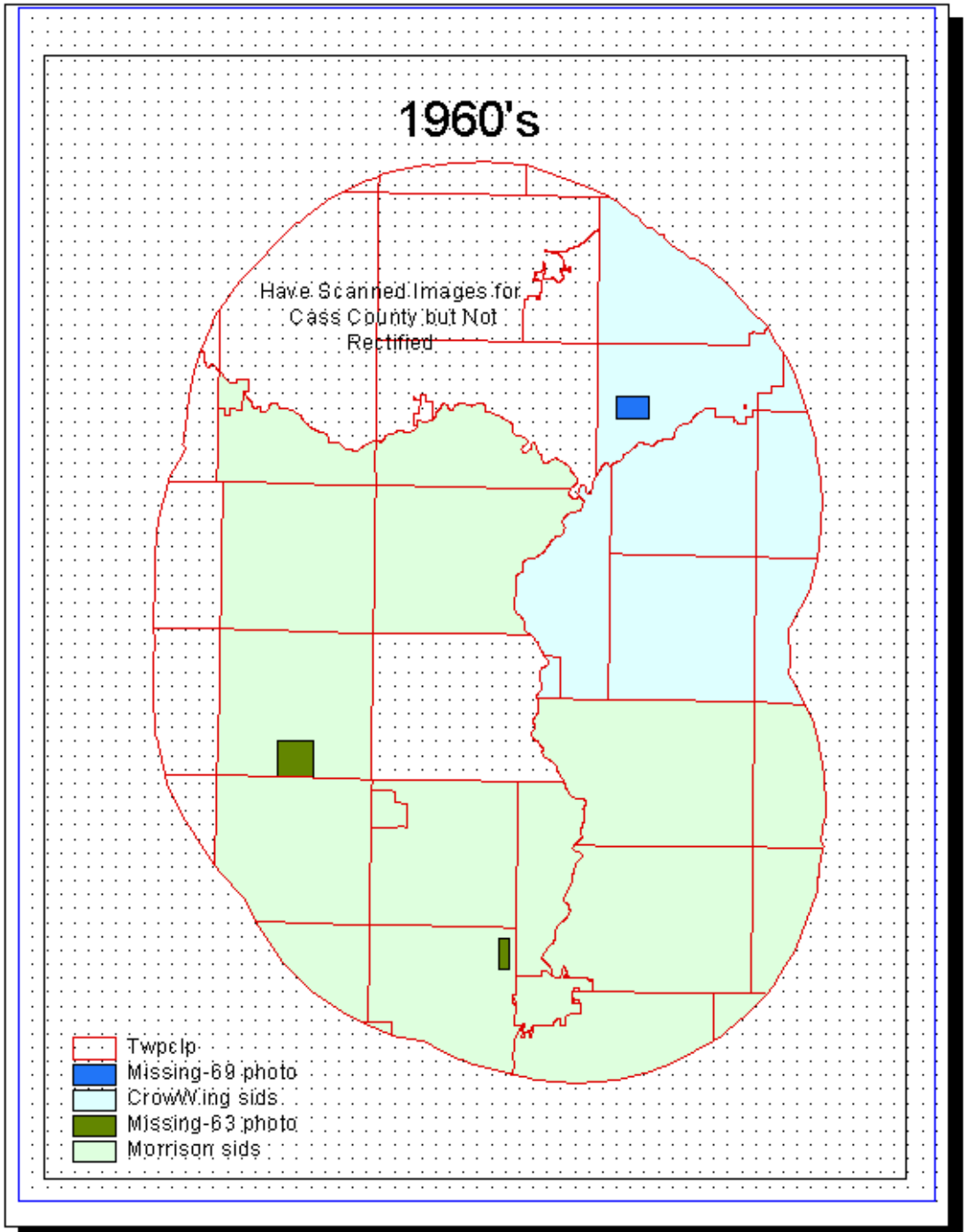

Plat Books to help locate farms and feed lots

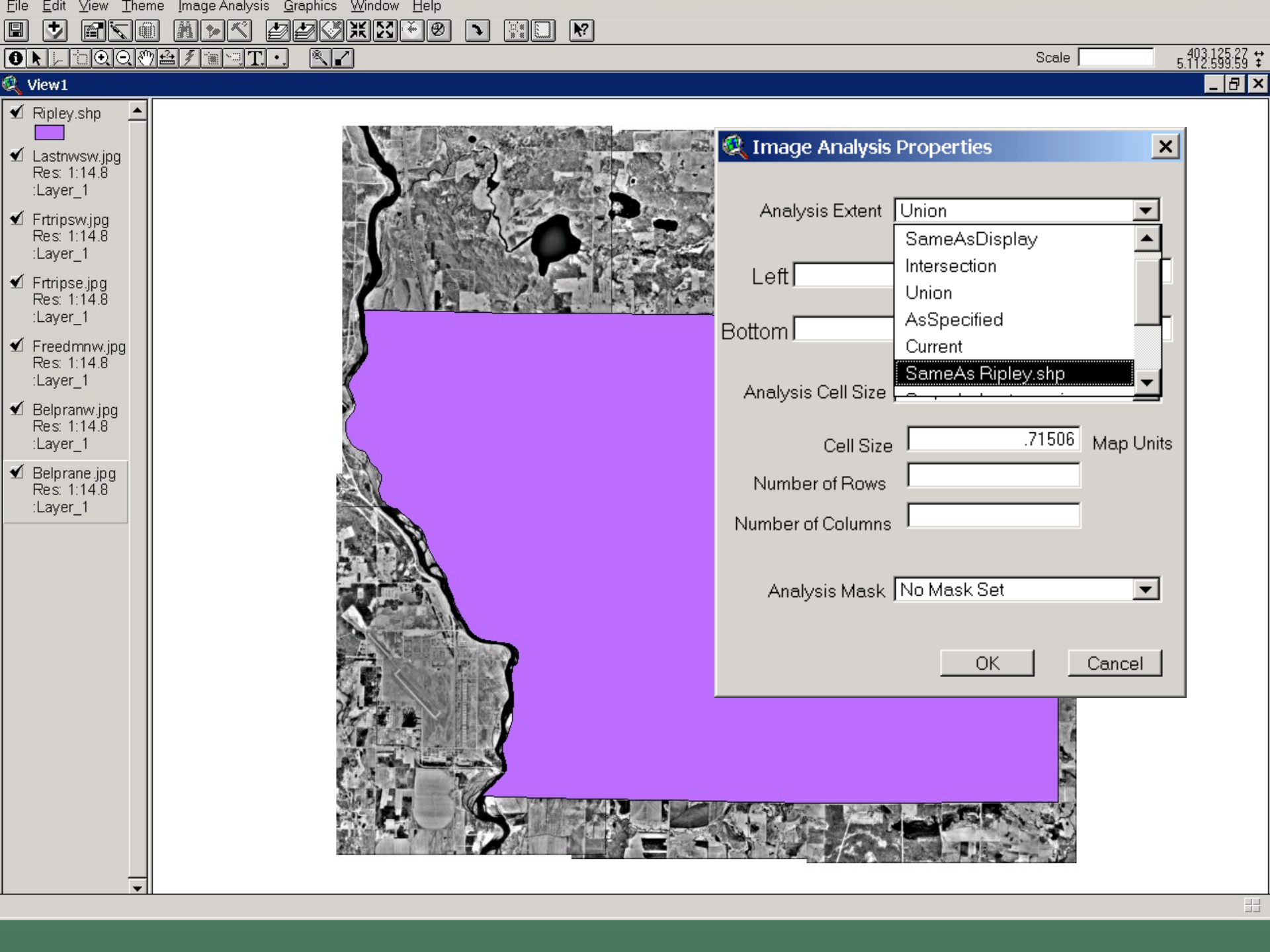
USDA 1963 Gray Scale Note the Grease Penciled Marks


7-23-63
BYA-6DD-134
524
1668
1668
1666
1661
1666
1661
1666
1661

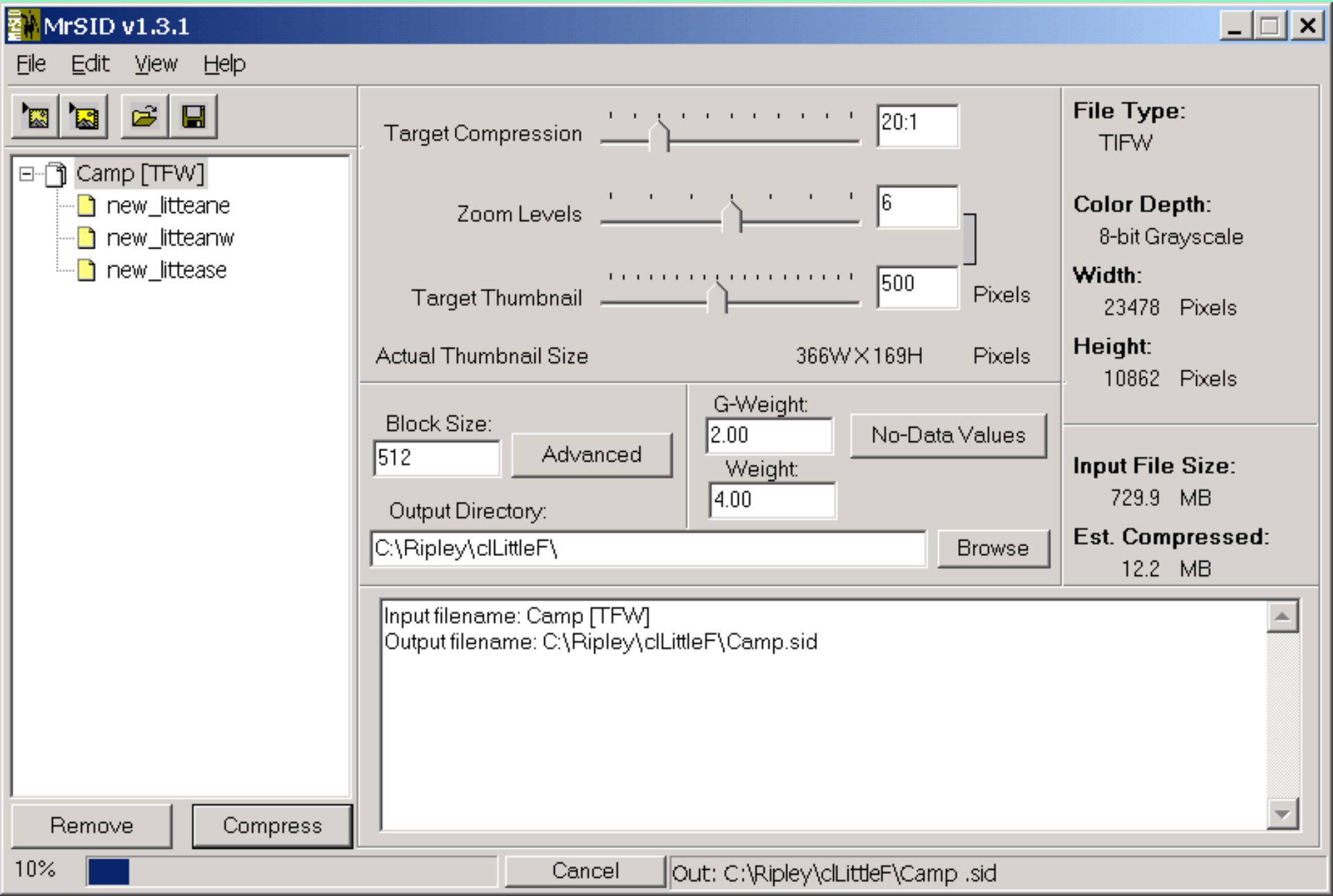
Work Product Work Flow Tracking




1960's
Have Scanned Images for
Cass County but Not
Rectified
Twpclp
Missing-69 photo
CrowWing sids
Missing-63 photo
Morrison sids


File Edit View Theme Image Analysis Graphics Window Help
Scale
403,125.27
5,112,599.59
View1
Ripley.shp
Lastnwsw.jpg
Res: 1:14.8
:Layer_1
Frtripsw.jpg
Res: 1:14.8
:Layer_1
Frtripse.jpg
Res: 1:14.8
:Layer_1
Freedmnw.jpg
Res: 1:14.8
:Layer_1
Belpranw.jpg
Res: 1:14.8
:Layer_1
Belprane.jpg
Res: 1:14.8
:Layer_1
Image Analysis Properties
Analysis Extent
Union
SameAsDisplay
Intersection
Union
AsSpecified
Current
SameAs Ripley.shp
Left
Bottom
Analysis Cell Size
Cell Size
.71506
Map Units
Number of Rows
Number of Columns
Analysis Mask
No Mask Set
OK
Cancel

Compression & Mosaic



QC/QA all photos
North at the top
slides may
need to be
‘flipped’

QC/QA Mosaic Check

Microsoft Excel - 1969 photos.xls

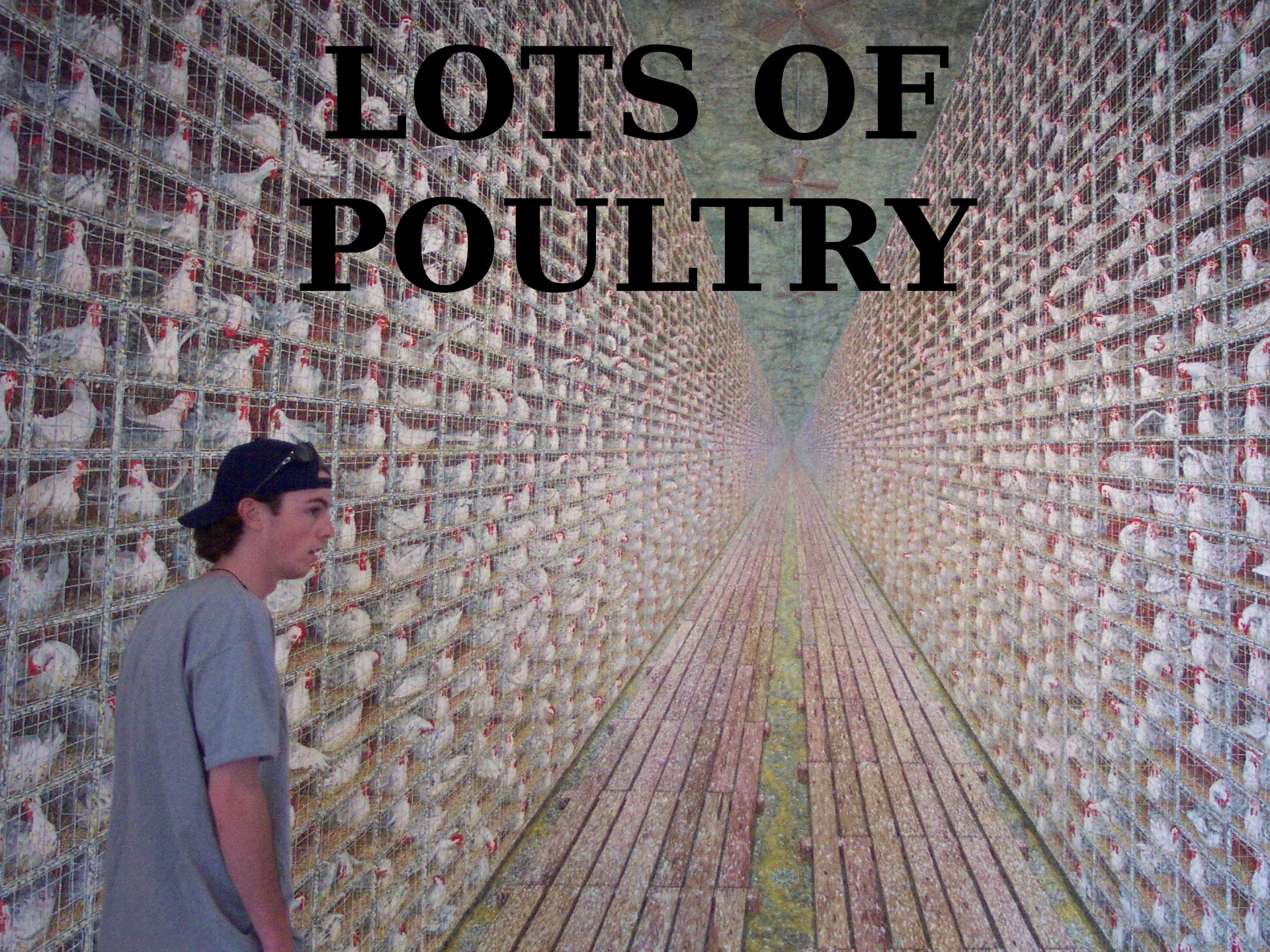
File Edit View Insert Format Tools Data Window Help

Arial 10

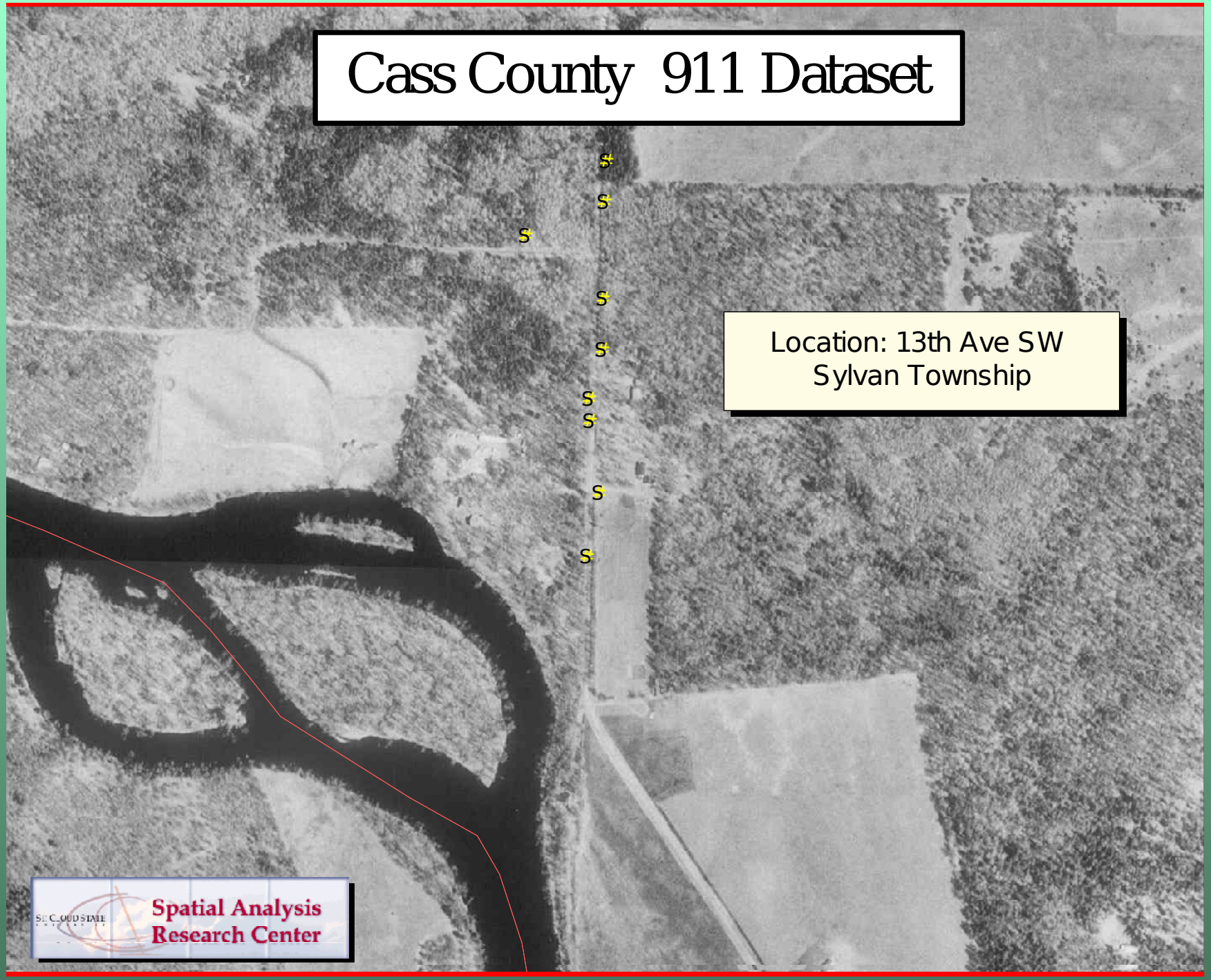
A1 = Photos from 1969 Crow Wing County

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1	**Photos from 1969 Crow Wing County**														
2	PHOTO	Scanned	Rectified		PHOTO	Scanned	Rectified		Photo	Scanned	Rectified				
3	BXT-4KK-1				BXT-4KK-88				BXT-2KK-49						
4	BXT-4KK-2				BXT-4KK-90				BXT-2KK-51						
5	BXT-4KK-3				BXT-4KK-92				BXT-2KK-60						
6	BXT-4KK-4				BXT-4KK-94				BXT-2KK-62						
7	BXT-4KK-5				BXT-4KK-95				BXT-2KK-63						
8	BXT-4KK-6				BXT-4KK-96										
9	BXT-4KK-7				BXT-4KK-97										
10	BXT-4KK-8				BXT-4KK-98										
11	BXT-4KK-9				BXT-4KK-99										
12	BXT-4KK-10				BXT-4KK-101										
13	BXT-4KK-11				BXT-4KK-103										
14	BXT-4KK-12				BXT-4KK-105										
15	BXT-4KK-13				BXT-4KK-107										
16	BXT-4KK-14				BXT-4KK-109										
17	BXT-4KK-16				BXT-4KK-111										
18	BXT-4KK-18				BXT-4KK-113										
19	BXT-4KK-29				BXT-4KK-115										
20	BXT-4KK-31				BXT-4KK-118										
21	BXT-4KK-33				BXT-4KK-120										
22	BXT-4KK-34				BXT-4KK-122										
23	BXT-4KK-35				BXT-4KK-124										
24	BXT-4KK-36				BXT-4KK-126										
25	BXT-4KK-37				BXT-4KK-128										
26	BXT-4KK-38				BXT-4KK-130										
27	BXT-4KK-39				BXT-4KK-135										
28	BXT-4KK-40														
29	BXT-4KK-41				BXT-2KK-1										
30	BXT-4KK-42				BXT-2KK-2										
31	BXT-4KK-43				BXT-2KK-6										
32	BXT-4KK-44				BXT-2KK-8										
33	BXT-4KK-45				BXT-2KK-10										

QC/QA Photo Tracking Spread Sheet

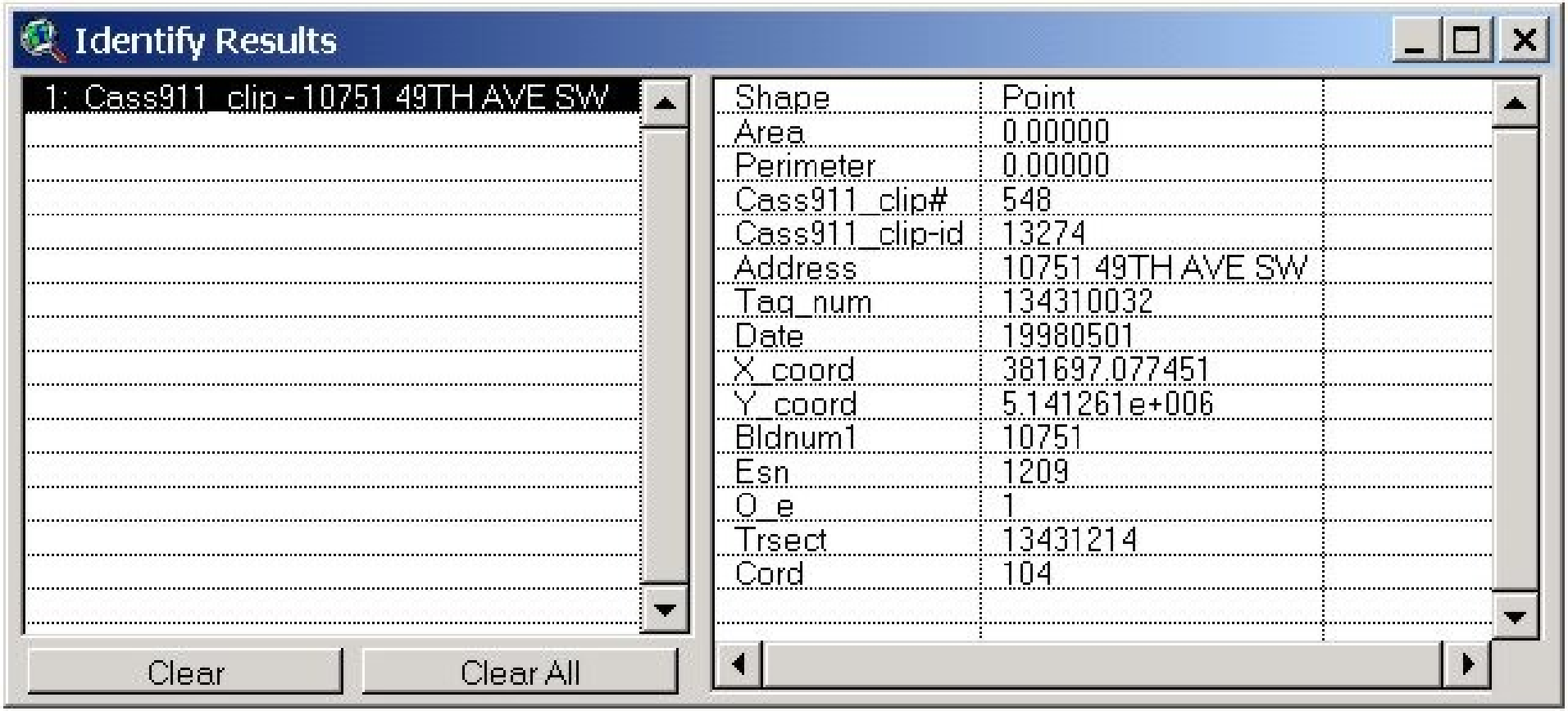

LOTS OF
POULTRY

Cass County 911 Dataset



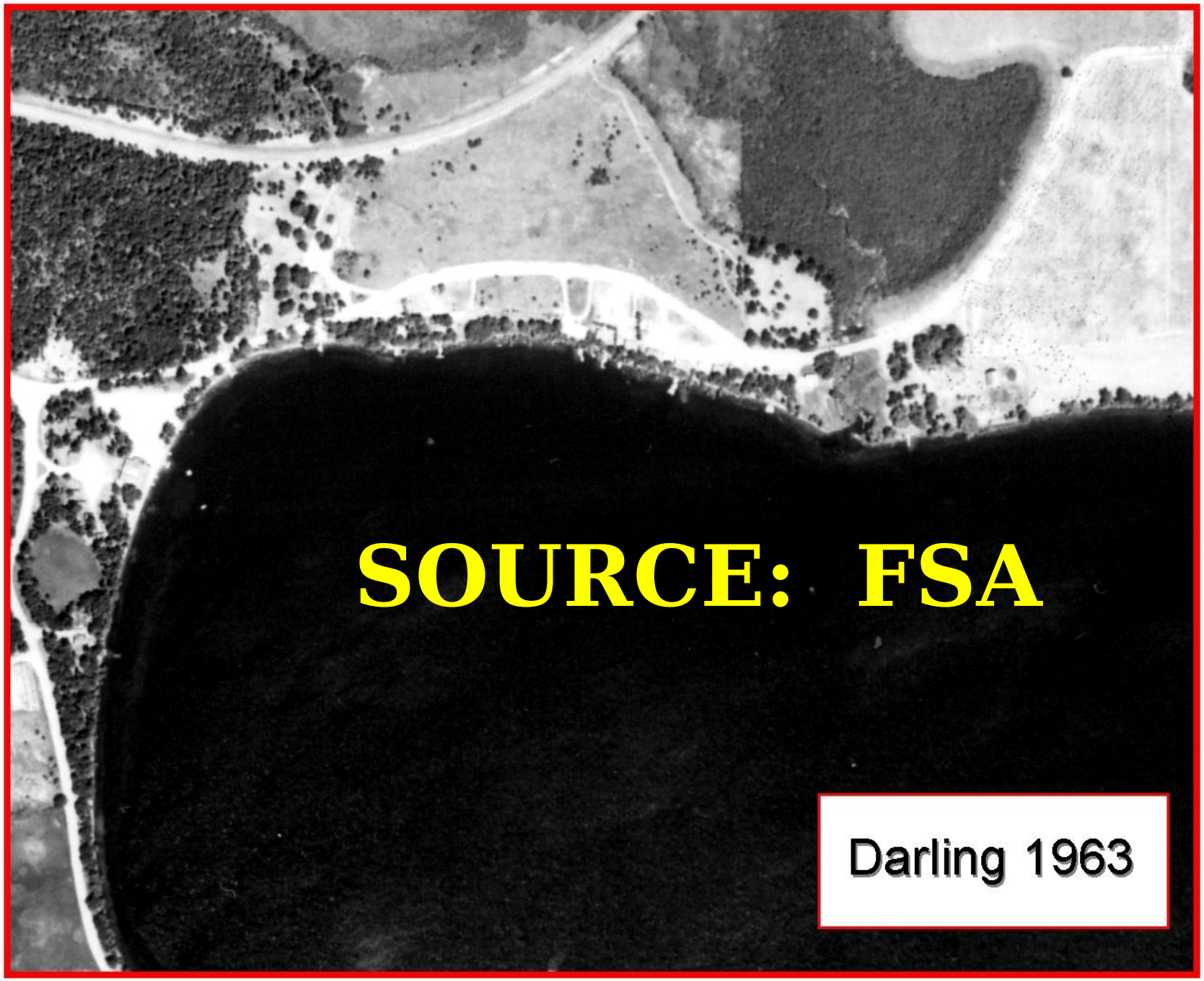
Spatial Analysis Research Center

10751 49TH AVE SW


Identify Results
1: Cass911_clip - 10751 49TH AVE SW
Clear
Clear All
Shape Point
Area 0.00000
Perimeter 0.00000
Cass911_clip# 548
Cass911_clip-id 13274
Address 10751 49TH AVE SW
Tag_num 134310032
Date 19980501
X_coord 381697.077451
Y_coord 5.141261e+006
Bldnum1 10751
Esn 1209
O_e 1
Trsect 13431214
Cord 104

Shape	Point
Area	0.00000
Perimeter	0.00000
Morrfeed_clip#	62
Morrfeed_clip-id	229
Morr_fd_	229
Morr_fd_id	229
Ctv	MORRISON
Id	229
Ctvid	MORR0229
Beef	0.00
Feeder	0.00
Replace	0.00
Cowcalf	0.00
Dairy	0.00
Yds	0.00
Calf	0.00
Hog_n	0.00
Hog	0.00
Chick	0.00
Turkey	1944.00
Horse	0.00
Sheep	0.00
Buffalo	0.00
Goose	0.00
Duck	0.00
Other_name	
Other_au	0.00
Au	1944

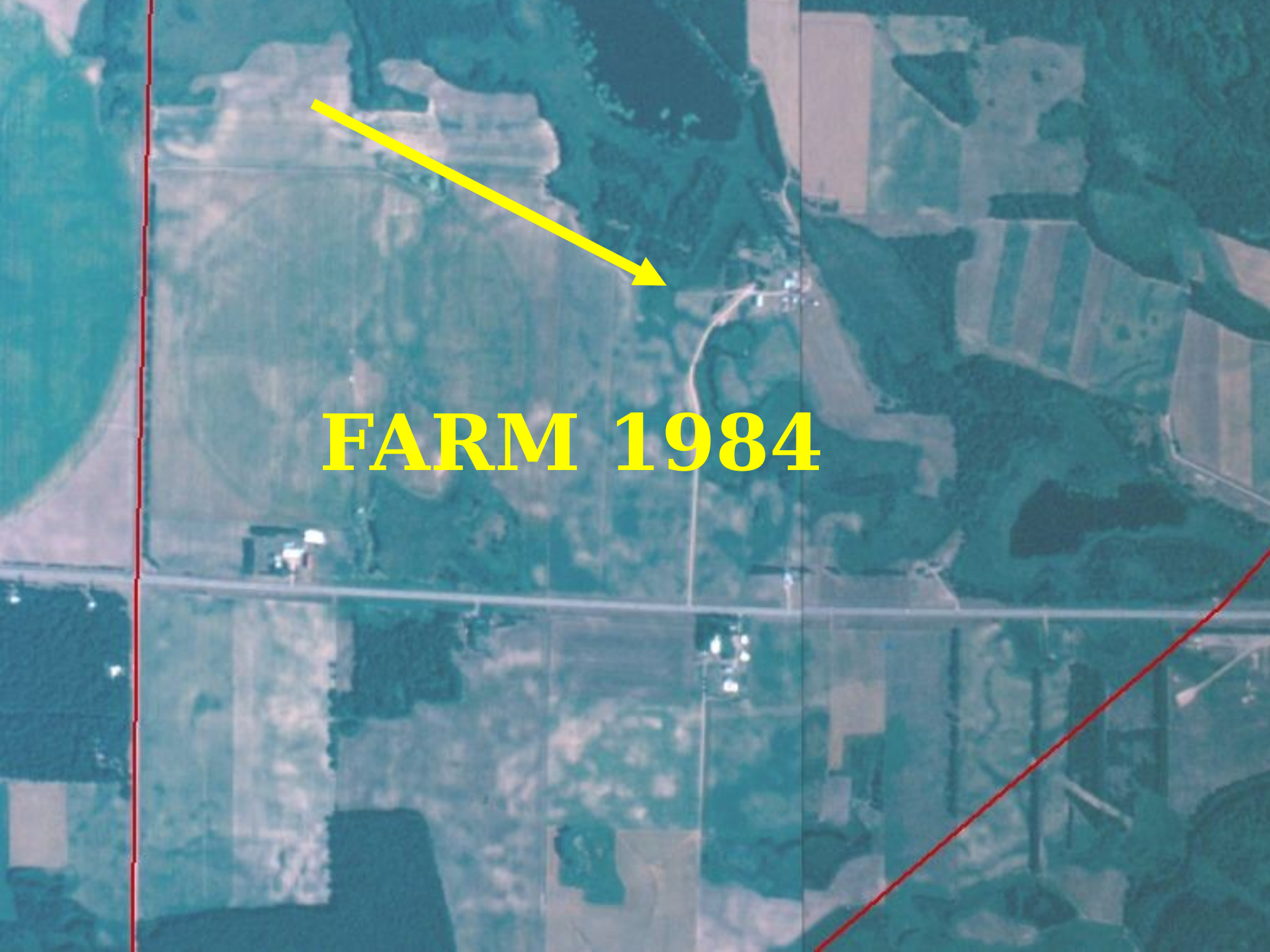
SOURCE: USDA
DARLING 1939

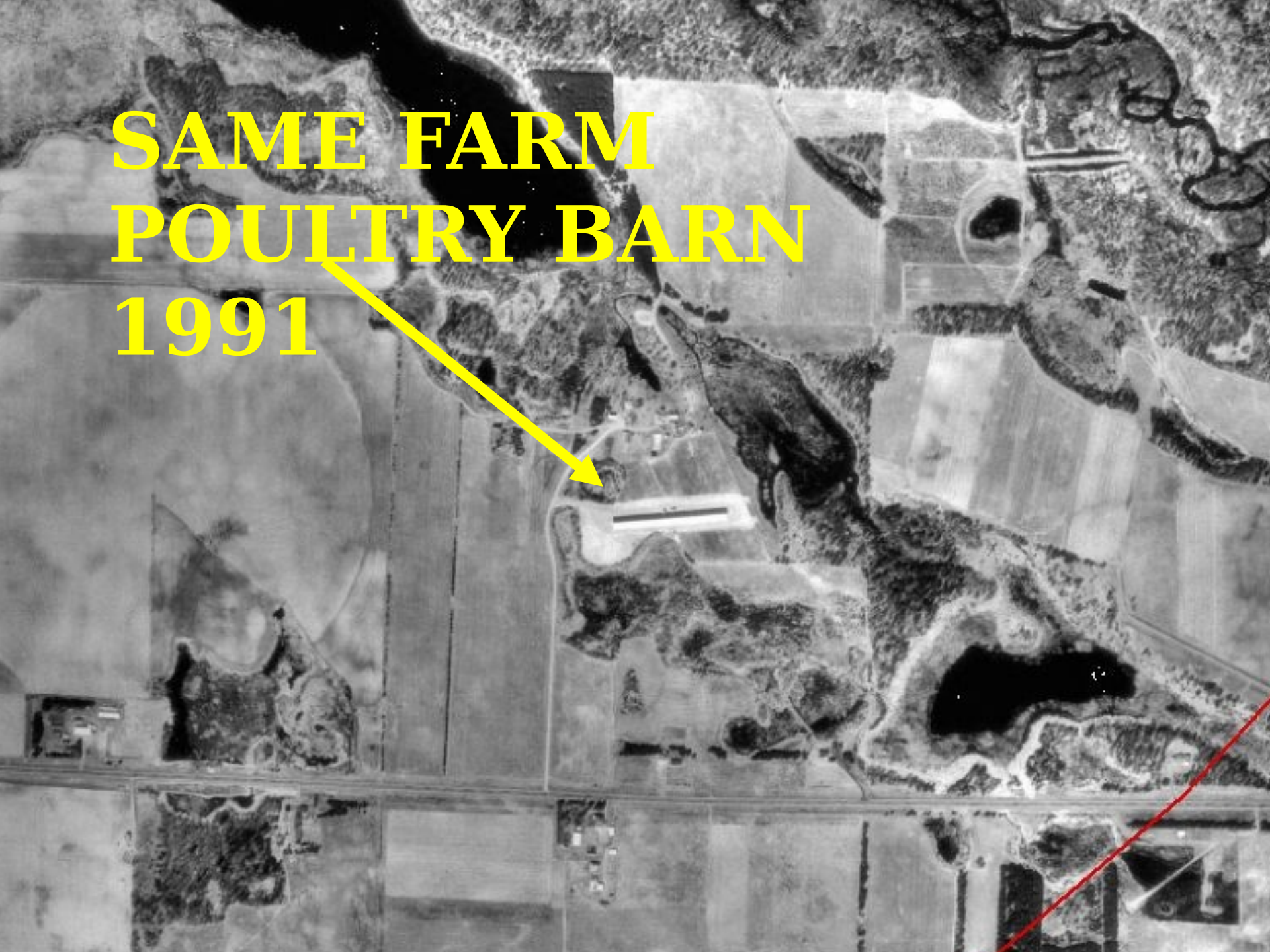

SOURCE: FSA
Darling 1963

SOURCE: DOQQ
Darling 1991

SOURCE: FSA 2001

COLOR INFRARED EXAMPLE
SOURCE: CASS COUNTY LAND OFFICE (FORESTRY)


FARM 1984


SAME FARM
POULTRY BARN
1991

ArcInfo AML written to compare each square mile for building type and number for each decade.

- PERIMETER = 0.091.28293
- CHANGE_CEM = 5
- CHANGE_CEM-CO =0.07674
- POLYTR =0.07675
- AFARM43 = 2
- AFARM_BLDG = 2
- FARM_CML = 0.08
- VFARM_CML = 0.08
- AFARM_BLDG1 = 11
- AFARM_BLDG1 = 11
- VFARM_BLD_CML = 7.19
- VFARM_BLD_CML = 7.19
- AFOLCTOY11 = 0
- AFOLCTOY11 = 0
- POLCTOY_B_CML = 0.08
- P_POLL-TOY_A_CML = 0.08
- AREA11 = 0
- AREA11 = 0
- SOIL_CML = 0.08
- SOIL_CML = 0.08
- AREA_BLDG1 = 0
- AREA_BLDG1 = 0
- SOIL_BLD_CML = 0.08
- SOIL_BLD_CML =0.08

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St. Cloud, MN 56301-4498

320-308-4870
bixby@stcloudstate.edu

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